

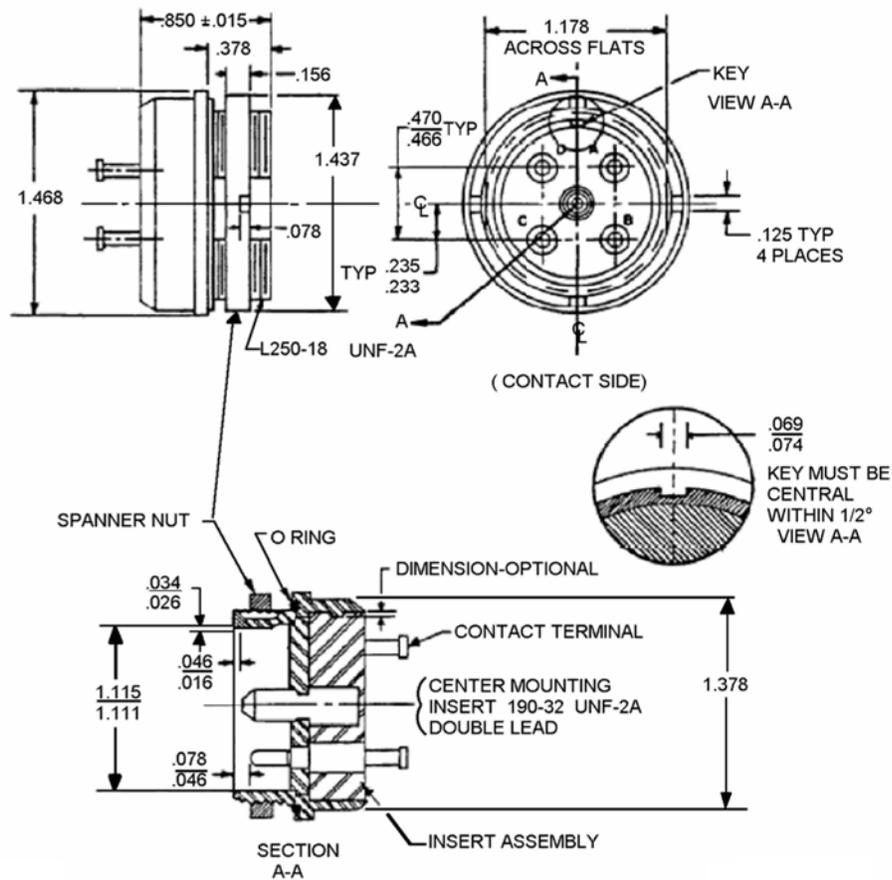
INCH-POUND

MIL-DTL-55181/2D  
10 March 2008  
SUPERSEDING  
MIL-C-55181/2C  
23 June 1986

DETAIL SPECIFICATION SHEET  
CONNECTOR, RECEPTACLE, ELECTRICAL, PANEL MOUNT,  
WATERPROOF, 4 PIN CONTACTS, SOLDER TURRET, 35 AMP

This specification is approved for use by all Departments and Agencies of the Department of Defense.

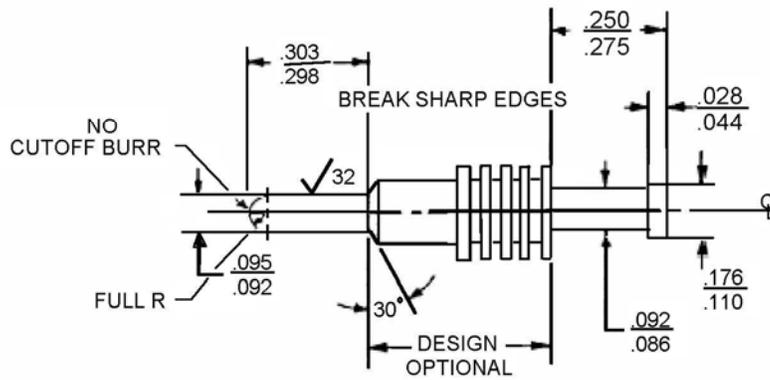
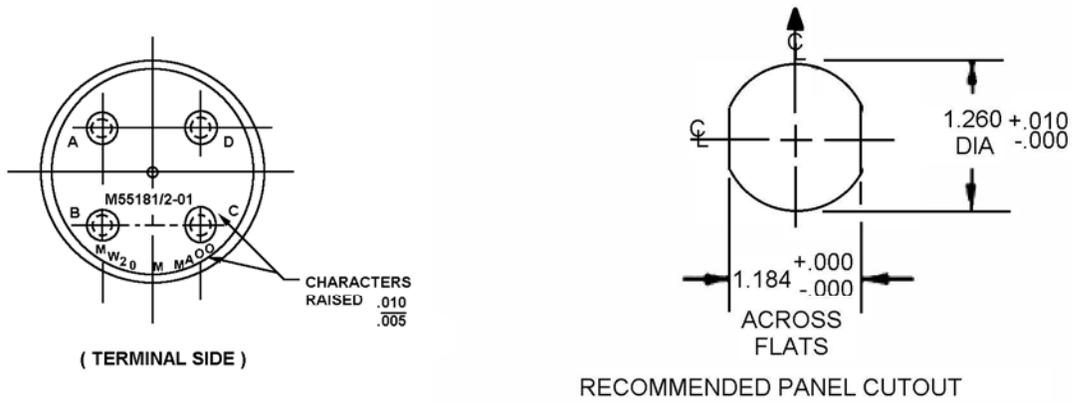
The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-55181.



CONNECTOR ASSEMBLY

FIGURE 1. Dimensions and configuration.

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CONTACT

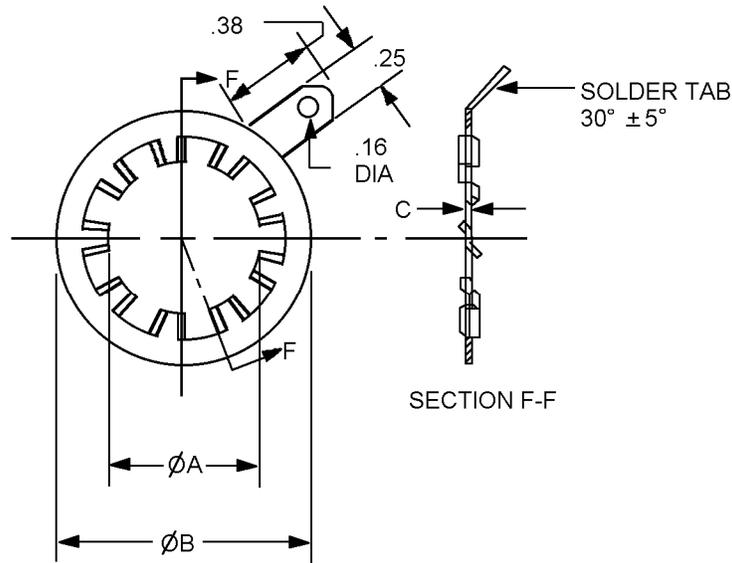
Inches	mm	Inches	mm	Inches	mm	Inches	mm
.005	0.12	.074	1.88	.233	5.92	1.111	28.22
.010	0.25	.078	1.98	.235	5.97	1.115	28.32
.015	0.38	.086	2.18	.250	6.35	1.178	29.92
.016	0.40	.092	2.34	.275	6.99	1.184	30.07
.026	0.66	.095	2.41	.298	7.57	1.250	31.75
.028	0.71	.110	2.79	.303	7.70	1.260	32.00
.034	0.86	.125	3.17	.378	9.60	1.378	35.00
.044	1.12	.156	3.96	.466	11.83	1.437	36.50
.046	1.17	.176	4.47	.470	11.94	1.468	37.28
.069	1.75	.190	4.82	.850	21.59		

FIGURE 1. Dimensions and configuration - Continued.

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are  $\pm .005$  inch (0.13 mm) for three place decimals and  $\pm .01$  inch (0.3 mm) for two place decimals.
4. Angular tolerances shall be  $\pm 30$  minutes unless otherwise specified.

FIGURE 1. Dimensions and configuration - Continued.



Outside diameter ØB Inches (mm)	Inside diameter ØA Inches (mm)	Thickness C Inches (mm)
1.468 (37.29)	1.255 (31.88)	.052 (1.32) - .060 (1.52)

Inches	mm
.16	4.06
.25	6.35
.38	9.65

NOTES:

1. Dimensions are in inches.
2. Metric equivalents are given for information only.
3. Unless otherwise specified tolerances are  $\pm .005$  inch (0.13 mm) for three place decimals and  $\pm .01$  inch (0.3 mm) for two place decimals.
4. Material: Carbon steel, cadmium plated in accordance with SAE-AMS-2700.
5. The number of teeth shall be at the option of the manufacturer.

FIGURE 2. Grounding washer.

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REQUIREMENTS:

Dimensions and configuration: See figure 1, figure 2, and table I.

Contacts: 35 ampere rating, 12 AWG.

Mating Connectors: M55181/1-01, M55181/1-02, M55181/1-03, and M55181/1-04.

Part or Identifying Number (PIN): M55181/2 – (dash number as specified in table I).

Supersession, cross-reference and mating connectors: See table II.

TABLE I. Dash numbers and characteristics.

PIN	
M55181/2-01	Without ground washer
M55181/2-01W	With ground washer

TABLE II. Supersession, cross reference and mating connector.

PIN	Old type designator	Old mating type designator
M55181/2-01	MW20M(M)A00	MW10F(M)A11
M55181/2-01	MW20M(M)A00	MW10F(M)A13
M55181/2-01	MW20M(M)A00	MW10F(M)A17
M55181/2-01	MW20M(M)A00	MW10F(M)A19
M55181/2-01	MW20M(M)A00	MW10F(M)A15

Changes from previous issue. The margins of this specification are marked with vertical lines to indicate where changes from the previous issue were made. This was done as a convenience only and the Government assumes no liability whatsoever for any inaccuracies in these notations. Bidders and contractors are cautioned to evaluate the requirements of this document based on the entire content irrespective of the marginal notations and relationship to the last previous issue.

Referenced documents: In addition to MIL-DTL-55181, this document references the following:

SAE-AMS-2700

MIL-DTL-55181/2D

CONCLUDING MATERIAL

Custodians:

Army - CR  
Navy - EC  
Air Force - 11  
DLA - CC

Preparing activity:

DLA - CC

(Project 5935-2007-122)

Review activity:

Air Force - 99

NOTE: The activities listed above were interested in this document as of the date of this document. Since organizations and responsibilities can change, you should verify the currency of the information above using the ASSIST Online database at <http://assist.daps.dla.mil>.